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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/811,070	03/29/2004	Gustaaf Willem Van Der Feltz	1857.2780000	8087
	7590 02/27/200' SLER, GOLDSTEIN &	EXAMINER		
1100 NEW YO	RK AVENUE, N.W.	KIM, PETER B		
WASHINGTON, DC 20005			ART UNIT	PAPER NUMBER
			2851	
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SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		. 02/27/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)		
Office Action Summary		10/811,070	VAN DER FELTZ ET AL.		
		Examiner	Art Unit		
		Peter B. Kim	2851		
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with th	e correspondence address		
A SH WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.1: SIX (6) MONTHS from the mailing date of this communication. It is period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATI 36(a). In no event, however, may a reply be vill apply and will expire SIX (6) MONTHS fr , cause the application to become ABANDO	ON. e timely filed rom the mailing date of this communication. DNED (35 U.S.C. § 133).		
Status					
	Responsive to communication(s) filed on <u>05 Do</u> This action is FINAL . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final.			
Dispositi	on of Claims				
5)⊠ 6)⊠ 7)⊠ 8)□ Applicati 9)□	Claim(s) 1-19 and 23-28 is/are pending in the at 4a) Of the above claim(s) is/are withdraw Claim(s) 1-9 and 11-19 is/are allowed. Claim(s) 23-28 is/are rejected. Claim(s) 10 is/are objected to. Claim(s) are subject to restriction and/or and Papers The specification is objected to by the Examine	wn from consideration. r election requirement. r.			
	The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Extended in the correct of the control of the correct of the control of the correct of the control of the correct	drawing(s) be held in abeyance. Sion is required if the drawing(s) is	See 37 CFR 1.85(a). objected to. See 37 CFR 1.121(d).		
Priority u	ınder 35 U.S.C. § 119		•		
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachmen	t(s)				
2) Notice (3) Inform	te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) or No(s)/Mail Date 12/06	4) Interview Summ Paper No(s)/Mai 5) Notice of Informa 6) Other:	I Date		

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on Dec. 5, 2006 has been entered.

Claim Objections

Claims 10 and 25 are objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. Claim 10 includes the limitation which is already in the independent claim. Claim 25 includes the limitation which is already in the independent claim.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 26-28 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 26, the term "forming" is unclear. It is not clear whether the alignment features are the substrate alignment features on the substrate or the mask alignment features exposed on the resist of the substrate. Further since the dimensional response model is derived

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from measuring the temperature of the substrate in the independent claim, the dependent claim seems to suggest another method of deriving the dimensional response which is different from the method of the independent claim.

The remaining claims, not specifically mentioned, are rejected for incorporating the defects from the base claim by dependency.

In view of the issues discussed above, the following art rejection is based on the examiner's best understanding of the claims.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 23-27 are rejected under 35 U.S.C. 102(b) as being anticipated by Hada (5,912,096).

Hada discloses a method comprising measuring a first set of temperatures (26), each temperature corresponding to the temperature at different region of a substrate (20) having an alignment features (X1, X2, Y1, Y2), measuring a first set of spatial distributions of the alignment features of the substrate concurrent to the measurement of the first set of temperatures, measuring a second set of temperatures, measuring a second set of spatial distribution (col. 3, line 22 – col. 4, line 14. Hada discloses more than a first and second set of temperature measurements and spatial distribution); and determining a dimensional response from differences

between measurements of the first and the second set of spatial distributions (col. 5, line 30 – col. 6, line 39).

Hada also discloses that the substrate is a reference substrate and the spatial distribution of the alignment features is measure on the reference substrate (col. 5, lines 17-25), and Hada discloses placing subsequent substrates and measuring temperature and processing based on the dimensional response derived from the reference substrate (col. 6, lines 40-65).

Hada discloses forming a first pattern alignment feature and second pattern alignment feature (X1, X2, Y1, Y2), and deriving the dimensional response (col. 5, line 30 – col. 6, line 39), and causing the first and second patterns to have nominal spatial distribution (col. 5, lines 3-64, series of measurement and small increments indicates causing nominal spatial distribution).

Allowable Subject Matter

Claims 1-9, and 11-19 are allowed.

Claim 28 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims, and if claim 26 were rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Response to Arguments

In response to applicant's arguments and amendments to the claims, claims 1-9, and 11-19 are allowed.

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Applicant amended claim 23, but did not respond to the rejection based on Hada. The rejection based on Hada is modified but maintained.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peter B. Kim whose telephone number is (571) 272-2120. The examiner can normally be reached on 9:00 AM - 6:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Diane Lee can be reached on (571) 272-2399. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Peter B. Kim Primary Examiner

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